SAMSUNG ELECTRONICS AMERICA, INC.

SERVICE DIVISION

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DIGITAL HOME THEATER SYSTEM HT-DB660

Instruction Manual

















Safety Warnings

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT PRODUCTO LASER CLASE 1



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Section 820~40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

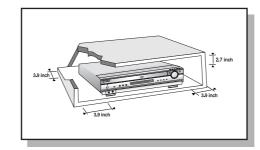


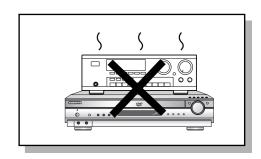
This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

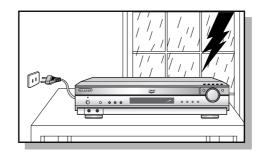
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.





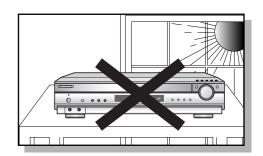


Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



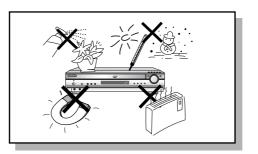
During thunderstorms, disconnect AC main plug from the

Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat

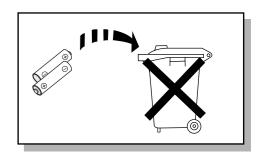
This could lead to overheating and malfunction of the unit.



Protect the player from moisture(i.e. vases), and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use. Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold

If transporting the player during the winter, wait approximately 2 hours



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

until the unit has reached room temperature before using.



READ INSTRUCTIONS

All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

HEED WARNINGS

All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

WATER AND MOISTURE

Do not use this video product near waterforexample, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

OVERLOADING

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

VENTILATION

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register.

This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been followed.

POWER CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

CLEANING

Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

LIGHTNING

For added protection of this video product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

OBJECT AND LIQUID ENTRY

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

ACCESSORIES

Do not place this video product on an unstable cart, stand, tripod, bracket, or table.

The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance.

Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

CART

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

POWER SOURCES

This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of supply to your home, consult your appliance dealer or local power company. For video products intended to be operated from battery power, or other sources, refer to the operating instructions.

POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits,

or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

POLARIZATION

This video product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other.) This plug will fit into the power outlet only one way.

This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

OUTDOOR ANTENNA GROUNDING

- •If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
- •In the U.S.A section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See the figure below.

ATTACHMENTS

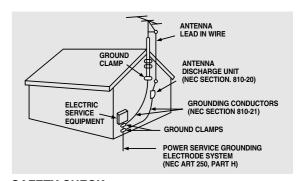
Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

SERVICING

- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
- •Refer all servicing to qualified service personnel.

REPLACEMENT PARTS

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.



SAFETY CHECK

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

DAMAGE REQUIRING SERVICE

Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions.

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the video product.
- c. If the video product has been exposed to rain or water
- d. If the video product does not operate normally by following the operating instructions.
 Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
- e. If the video product has been dropped or the cabinet has been damaged.
- f. When the video product exhibits a distinct change in performance - this indicates a need for service.

HEAT

This video unit should be situated away from heat sources such as radiators, stoves, or other products (including amplifiers) that propduce heat.





The HT-DB660 combines the convenience of multi-disc playback capability, including DVD, VCD, CD, MP3-CD, CD-R, CD-RW, and DVD-RW, with a sophisticated AM/FM tuner, all in a single player.

Built-in 5.1-Channel Amplifier

The HT-DB660 comes with a built-in 5.1-channel amplifier, allowing you to enjoy dynamic sound.

Super Digital Sound Master

Equipped with new digital audio technology (auto sound calibration, magic sound field, and magic headphone) developed in cooperation with DiMagic Co., Ltd., you will enjoy a more spacious sound with better control.



ORRSS (Rear Reflecting Surround System)

The sound from the rear speaker is reflected against the side and rear walls before reaching the listener to produce realistic sound as if you have installed an actual 5.1-channel speaker system.

Sound Logo

When power is turned on, a sound logo is output from speakers to notify the user that the unit is optimized for disc playback.

TV Screen Saver Function

The HT-DB660 automatically brightens and darkens the brightness of the TV screen after 2 minutes in the stop or pause mode.

Power Saving Function

The HT-DB660 automatically shuts itself off after 20 minutes in the stop or pause mode.

Customized TV Screen Display

The HT-DB660 allows you to select your favorite image during JPEG, DVD, or VCD playback and set it as your background wallpaper.

Auto Sound Calibration

By setting the auto sound calibration function just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 5.1-channel sound field optimized for the listener's environment.



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DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.





DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is given on the rear panel of the player. (Your DVD player will only play DVDs that are labeled with identical region codes.)

Playable Discs

Disc Type	Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
	DVD	Audio + Video	5"	Approx. 240 min. (single-sided)
DVD				Approx. 480 min. (double-sided)
000	VIDEO	Audio + Video	3 1/2"	Approx. 80 min. (single-sided)
	VIDEO		3 1/2	Approx. 160 min. (double-sided)
VIDEO-CD	VIDEO-CD	Audio + Video	5"	74 min.
VIDEO-OD	DIGITAL VIDEO	Addio + Video	3 1/2"	20 min.
ALIDIO OD	COMPACT COMPACT	Audio	5"	74 min.
AUDIO-CD	ロリンし DIGITAL AUDIO		3 1/2"	20 min.







disc







NTSC video format NTSC is used in all of North America, the Philippines, South Korea and Japan



Do not use the following types of disc!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM cannot be played on this player. If such discs are played, a "WRONG DISC FORMAT" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player. If such discs are played, a "WRONG REGION CODE" message appears on the TV screen.

Copy Protection

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Recording Format

CD-R Discs

- Depending on the disc recording device (CD-Recorder or PC) and the condition of the disc, some CD-R discs may not be playable.
- Use a 650MB/74 minute CD-R. Avoid CD-R media, as they may not be playable.
- If possible, do not use CD-RW (Rewritable) media, as they may not be playable.
- Only the CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written Multi session disc can be played. If there is a blank segment in the Multi session disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- If more than 500 tracks are recorded on a single CD, a maximum of 500 tracks can be played.
- If more than 300 folders are recorded on a single CD, a maximum of 300 folders can be played.

What is MP3?

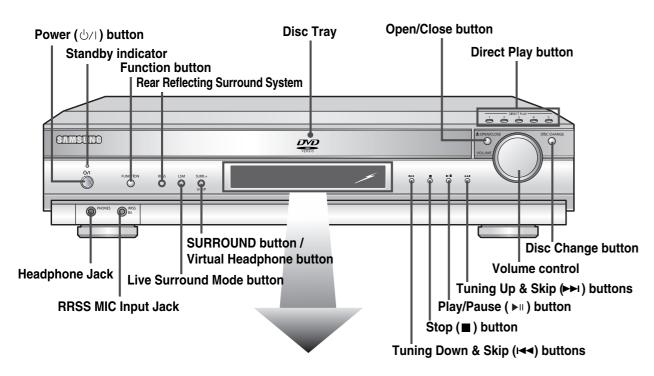
MP3 is short for MPEG-1 Audio Layer 3 and MPEG is an acronym for Moving Pictures Experts Group. MP3 is a file format with compression ratio of 1:12 (128 Kbps*) That is, you can use MP3 format to record about 12 times the usual amount of data on a regular CD.

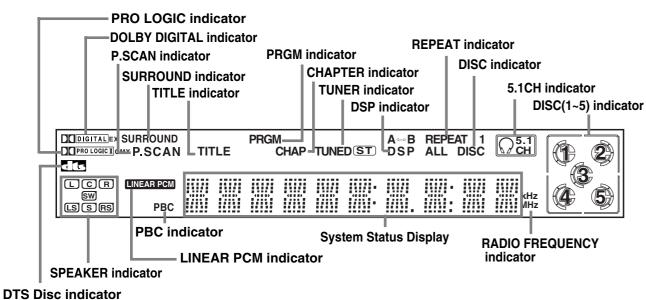
CD-R JPEG Discs

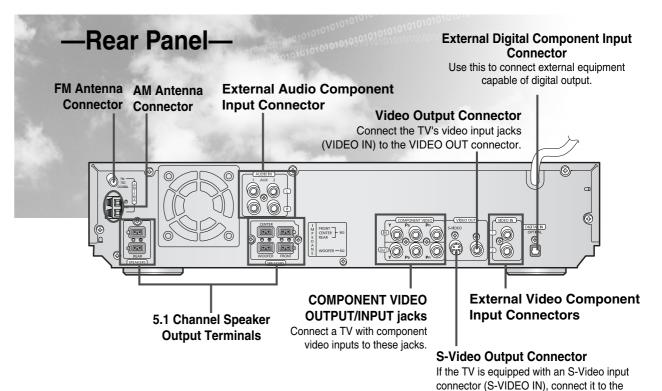
- Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (, / = +).
- Only a consecutively written multi session disc can be played. If there is a blank segment in the multi session disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

Description

—Front Panel—

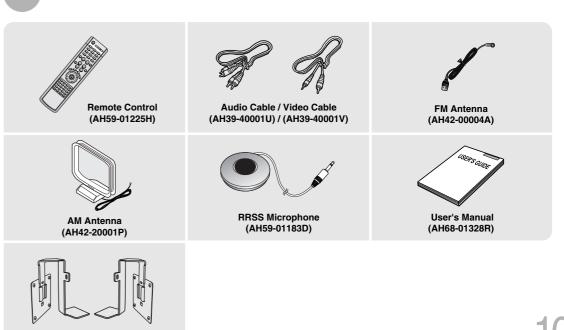






Accessories

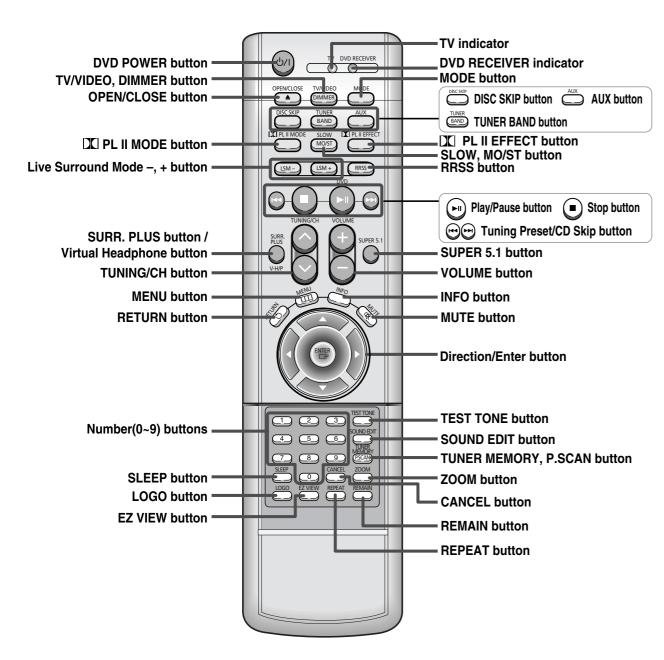
Speaker Bracket



player's S-Video output jack.



—Remote Control—

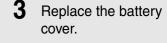


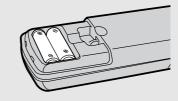
Insert Remote Batteries

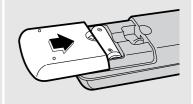
Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and -).







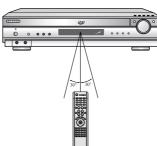
Caution

Follow these precautions to avoid leaking or cracking cells:

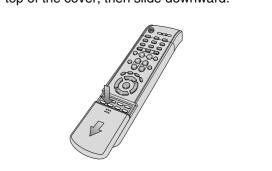
- Place batteries in the remote control so they match the polarity:(+) to (+)and (-)to (-).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



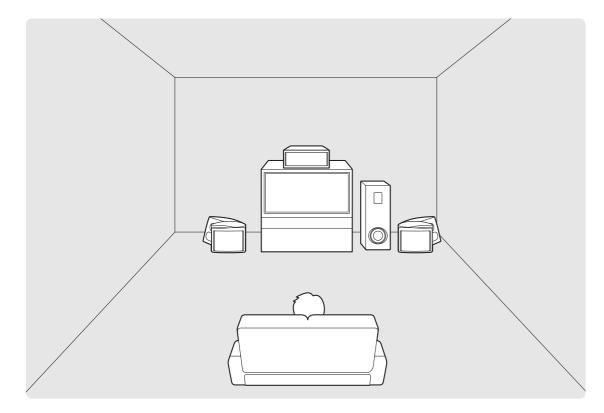
To open the remote control cover, push the top of the cover, then slide downward.





Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of the DVD Player

 Place it on a stand or cabinet shelf, or under the TV stand.



- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8feet) For 55" TVs 3.5~4m (11~13feet)

Center Speaker C

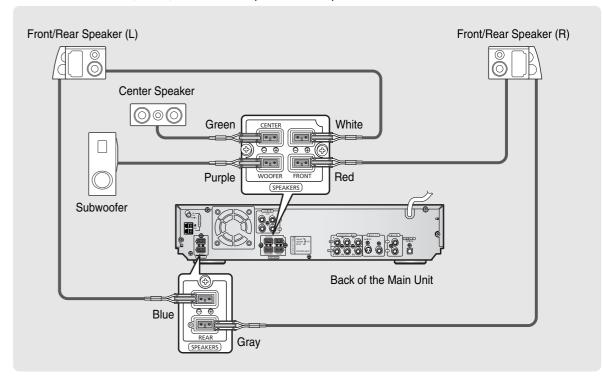


- It is best to install it at the same height as the front
- You can also install it directly over or under the TV.

Subwoofer SW

- The position of the subwoofer is not so critical. Place it anywhere you like.
- Usually, it is placed by a corner near the front speakers.

•Connect the front/rear, center, and subwoofer speakers to the speaker terminals on the back of the main unit.

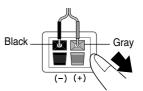


Back of the Speaker

Press down the terminal tab on the back of the speaker.



2 Insert the black wire into the back terminal (-) and the gray wire into the gray (+) terminal, and then release the tab.



Back of the Main Unit

3 Connect the wires to the output jacks of the same color on the back of the main unit, making sure that the polarity (+/-)

Example: Connect the center speaker's green wire to the center speaker output jack (green) on the back of the main unit.



Caution

- Do not let children play with the speakers. They could get hurt if a speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/) is correct.
- Never touch the speaker terminal while the power is on. Doing so may result in a risk of electric shock.

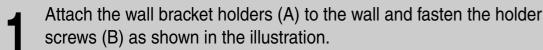
Note

• If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. In this case, place the speaker away from your TV set.

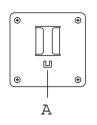


Mounting the Speakers to a Wall

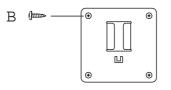
Connecting the Video to TV



• For an optimal sound field, the distance between the speakers should be 40 inches, and each speaker should be at least 20 inches away from the side wall.

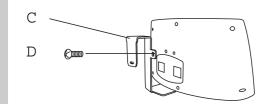


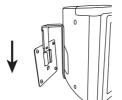




• If the wall is concrete, purchase and use anchor bolts.

2 Check the left and right speakers, fasten the speaker to the bracket (C) using the fixing screw (D), and then insert the bracket into the holder as shown in the illustration. (Insert the speaker cords before inserting the bracket into the holder.)







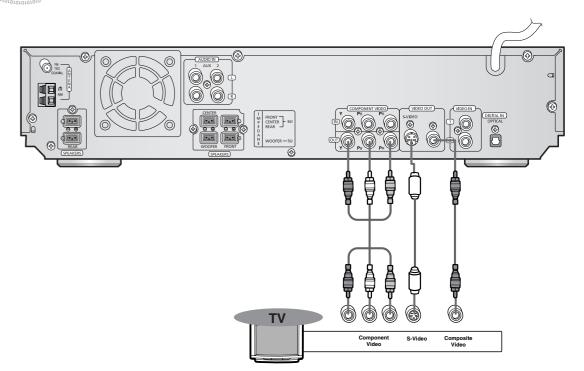
3 Complete the speaker setup as shown in the illustration.







Right Speaker



* Depending on your TV, Component Video input connectors may be marked as DVD Video input connectors.

Composite Video (Good Quality)

Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

S-Video (Better Quality)

If you television is equipped with an S-Video input, connect an S-Video cable (not supplied) from the S-VIDEO OUT jack on the back panel of the system to the S-VIDEO IN jack on your television.

Component Video (Best Quality)

If your television is equipped with Component Video inputs, connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.

• When the Progressive scan mode is selected, the VIDEO and S-VIDEO outputs do not feed any signals. See page 17 to select Progressive Scan.



P.SCAN(Progressive Scan) Function

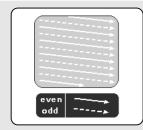
Unlike a regular Interlace Scan in which two fields of picture information are alternated to create the entire picture (odd scan lines, then even scan lines), Progressive Scan uses one field of information (all lines displayed in one pass) to create a clear and detailed picture without visible scan lines.

Hold the P.SCAN button down for longer than 1 second.

- The selection switches back and forth between "P.SCAN" and "I.SCAN" each time the button is held down for a minimum of 1 second.
- The previous mode is indicated in the display first, followed by the selected mode in about a second.

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS)



In interlaced-scan video, a frame consists of two interlaced fields (odd and even), where each field contains every other horizontal line in the frame. The odd field of alternating lines is displayed first, and then the even field is displayed to fill in the alternating gaps left by the odd field to form a single frame. One frame, displayed every 1/30th of a second, contains two interfaced fields, thus a total of 60 fields are displayed every 1/60th of a second each. The interlaced scanning method is intended for capturing a till relief.

Progressive Scan (FULL FRAME)



The progressive scanning method scans one full frame of video consecutively down the screen, line by line. As opposed to the interlaced scanning process by which a video image is drawn in a series of passes, you get an entire image drawn at one time.

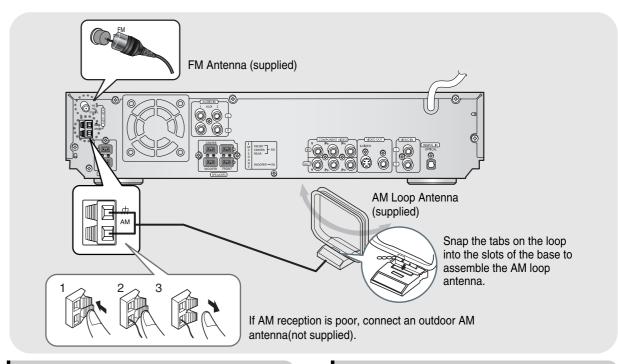
The progressive scanning method is desirable for dealing with moving objects. A camera that has the ability to capture moving objects is called a "full frame shutter camera".

Note

- This function works only on TVs equipped with component video inputs (Y, Pr, Pb) that support Progressive Video. (It does not work on TVs with conventional component inputs, i.e., non-progressive scan TVs.)
- Depending on the brand and model of your TV, this function may not work.
- This unit only outputs 480i and 480p in progressive scan mode.



Connecting the Antennas



FM antenna connection

Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal as a temporary measure.

2 Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

AM(MW) antenna connection

■ Connect the AM loop antenna supplied to the AM and /// terminals.

2 If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).

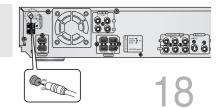
Cooling Fan

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.



Please observe the following cautions for your safety.

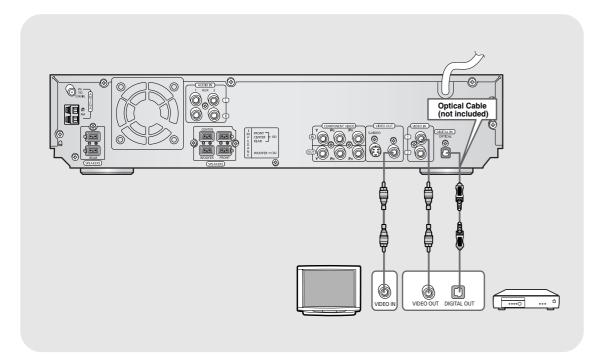
- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)
- \bullet If reception is poor, connect an outdoor antenna. Before attaching a 75 Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.



Connecting External Components

Connecting an External Digital Component

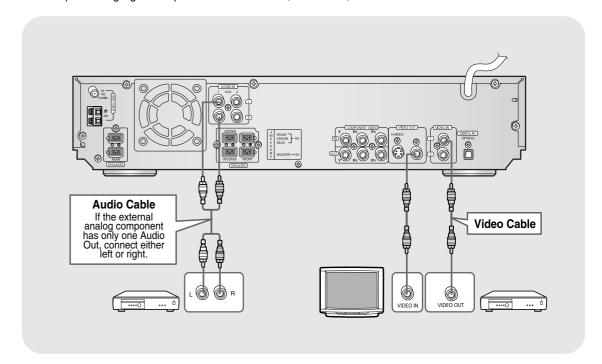
Example: Digital signal components such as a DVD or CD Recorder.



- 1 Connect Video Out on the DVD player to Video In on the TV.
- 2 Connect the Digital Input (OPTICAL) to the Digital Output on the external digital component.
- 3 Press AUX on the remote control to select 'DIGITAL IN'.
 - Each time the button is pressed, the selection changes as follows: DIGITAL IN → AUX 1 → AUX 2.
 - You can also use the FUNCTION button on the main unit.
 The mode switches as follows: DVD/CD → DIGITAL IN → AUX1 → AUX2 → FM → AM.

Connecting an External Analog Component

Example: Analog signal components such as a VCR, Camcorder, and TV.



- 1 Connect Video Out on the DVD player to Video In on the TV.
- 2 Connect Video In on the DVD player to Video Out on the external analog component.
- 3 Connect Audio In on the DVD player to Audio Out on the external analog component.
 - Be sure to match connector colors.
- Press AUX on the remote control to select AUX 1 or AUX 2.
 - Each time the button is pressed, the selection changes as follows: DIGITAL IN AUX 1 AUX 2.
 - You can also use the FUNCTION button on the main unit.
 The mode switches as follows: DVD/CD → DIGITAL IN →

Note

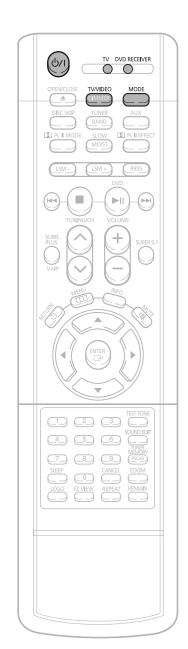
- If you have connected an external digital component and Video In (1, 2) at the same time, there will be video from AUX 1 even when you select DIGITAL IN.
- If you have connected Audio In (L, R) to 1, connect Video In to 1 as well, and if you have connected Audio In (L, R) to 2, connect Video In to 2 also.

 $AUX1 \rightarrow AUX2 \rightarrow FM \rightarrow AM.$



Before Using Your DVD Player

Your DVD player is capable of playing DVD, VCD, CD, MP3 and JPEG discs. Depending on the disc you are using, these instructions may vary slightly. Read the instructions carefully before using.



Plug the power cord into the AC power supply.



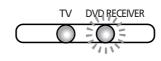


- TV Broadcast System
 - This device is designed to work with the NTSC video format.
 - For normal playback, the video format a DVD disc is recorded in must coincide with your TV's video format.

Press the **MODE** button so that the TV indicator on the remote control flashes.



Press the MODE button so that the DVD RECEIVER indicator on the remote control flashes.



Press the **POWER** button to turn on the TV.



Press **FUNCTION** button on the main unit to select DVD/CD mode.

To Operate the TV and DVD Player with a Single Remote Control

Press MODE button.

- Each time the Mode button is pressed, the TV indicator (red) and the DVD RECEIVER indicator (green) will flash alternately.
- You can operate the TV while the TV indicator is flashing and the DVD player while the DVD indicator is flashing.
- Buttons Enabled for TV Operation: POWER, CHANNEL, VOLUME, TV/VIDEO, and Numeric (0-9) buttons.
- By default, the remote control is set to work with Samsung TVs.
 See page 67 for more information on the operation of the remote control.

Disc Playback

Press **OPEN/CLOSE** button to open the disc tray.

Load one or more discs.

• Place a disc gently into the tray with the disc's label

Press **DISC SKIP** button.

• Rotate the carousel tray so you can load the third, fourth,

Close the compartment by pressing the **OPEN/CLOSE** button again.







Playback starts automatically.





- Playback starts automatically.
- If the TV is on, a list of MP3s on the CD will appear on the TV screen.







- Depending on the content of the disc, the initial screen may appear different.
- Depending on the recording mode, some MP3-CDs cannot be played.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.



Selecting a Disc in the Disc changer

The DVD/CD function is automatically selected when Disc Skip is pushed.

To select a specific disc, press the corresponding **DIRECT** PLAY (1, 2, 3, 4, 5) buttons on the front panel or DISC SKIP on the remote control, until the required disc indicator flashes.

• All the discs will be played in turn, starting with the one selected.



If you wish to play the current disc only, press **REPEAT** on the remote control one or more times, until "REPEAT: DISC" is displayed.

If the disc selected is not loaded, the next disc is played automatically.

To stop playback, press STOP during playback.

- If pressed once, "PRESS PLAY" is displayed and the stop position will be stored in memory. If PLAY/PAUSE (▶II) button or ENTER button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- . If pressed twice, "STOP" is displayed, and if PLAY/PAUSE (|) button is pressed, playback starts from the beginning.

To temporarily pause playback, press PLAY/PAUSE during playback.

• To resume playback, press PLAY/PAUSE button again.

REPEAT



Displaying Disc Information

You can view playback information on the disc on the TV screen.

Checking the Remaining Time

Press INFO button.

Each time the button is pressed, the display changes as follows:

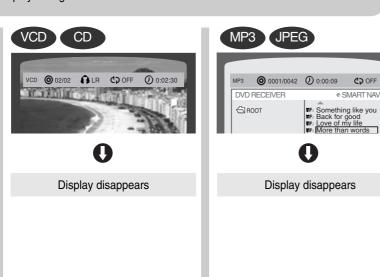








Display disappears



• Depending on the disc, the disc information display may appear different.

• Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

• What is a Title?

A movie contained in a DVD disc.

What is a Chapter?

Each title on a DVD disc is divided into several smaller sections called "chapters".

• appears on the TV screen!

If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.

• What is a Track (File)?

A section of video or a music file recorded on a VCD, CD, or MP3-CD.

Screen Display



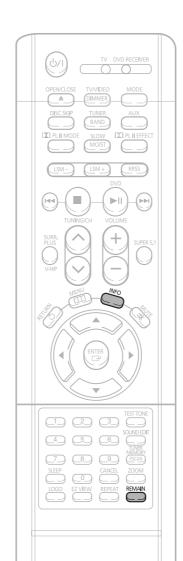






DIGITAL DOLBY DIGITAL display

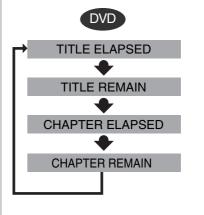
CHAPTER display (2) REPEAT PLAYBACK display (1) LR STEREO (L/R) display

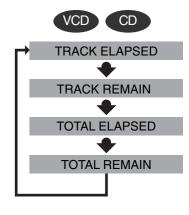


Press the Remain button.

• For checking the total and remaining time of a title or chapter being played.

Each time the Remain button is pressed





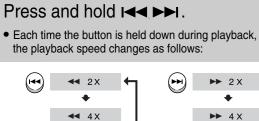
CD CD display

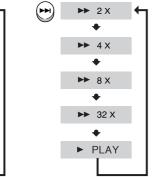
Note

The state of the s

Fast/Slow Playback

Fast Playback DVD VCD CD MP3





Slow Playback

•

◄ 8X

•

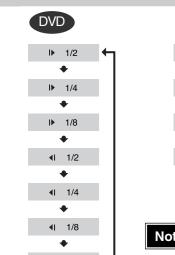
◄ 32 X

•

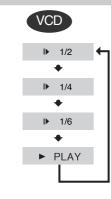
► PLAY

Press **SLOW** button.

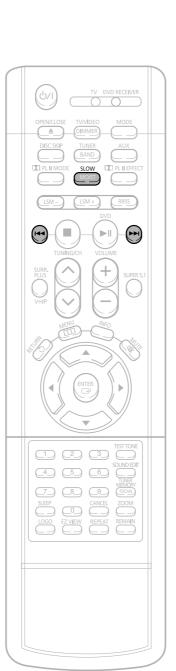
• Each time the button is pressed during playback, the playback speed changes as follows:



► PLAY



Reverse slow playback does not work with VCDs.







Briefly press I◄◀ ▶►I.

- Each time the button is pressed briefly during playback, the previous or next chapter, track, or directory (file) will be played.
- But, you cannot skip chapters consecutively.







 When watching a VCD with a track longer than 15 minutes, each time
 I◄
 I ⇒ I is pressed, playback will skip back or forward 5 minutes.





Note

- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.
- No sound is heard during slow playback and step motion playback.

Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).



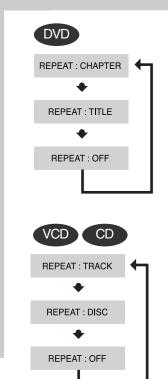


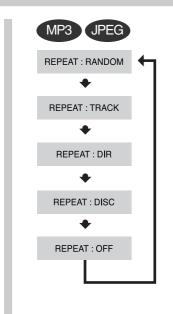




Press **REPEAT** button.

• Each time the button is pressed during playback, the repeat playback mode changes as follows:





Repeat Playback Options

Repeatedly plays the selected chapter.

Repeatedly plays the selected title

RANDOM

Plays tracks in random order.

(A track that has already been played may be played again.)

TRACK

Repeatedly plays the selected track.

Repeatedly plays all tracks in the selected

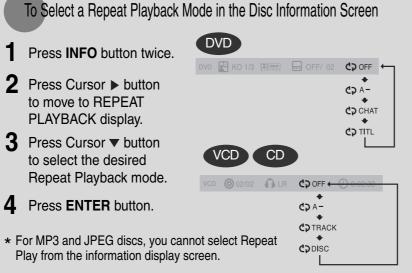
DISC

Repeatedly plays the entire disc.

Cancels Repeat Playback.

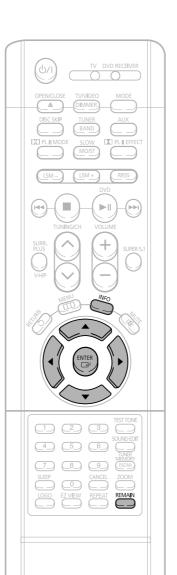
Note

• Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To use Repeat Playback on a VCD with PBC, you should set the PBC to OFF in the disc menu. (See page 35.)





A-B Repeat Playback





Press INFO button twice.

• For a VCD or CD, press INFO button once.

Press Cursor ▶ button to move to REPEAT PLAYBACK display.

KO 1/3 DIGUSY --- OFF/ 02

Press Cursor . . buttons to select 'A-' and then press **ENTER** button at the beginning of the segment.

• When ENTER button is pressed, the selected position will be stored in memory.



Press **ENTER** button at the end of the segment.

• The specified segment will be played repeatedly.



To return to normal playback, press Cursor ▲, ▼ buttons to select CO OFF.

Note

• The A-B Repeat function will not work on an MP3 or JPEG disc.

Angle Function

This function allows you to view the same scene in different angles.

DVD

Press **INFO** button.



Press Cursor ► button to move to ANGLE display.



Press Cursor ▲, ▼ buttons or numeric buttons to select the desired angle.

• Each time the button is pressed, the angle changes as follows:











Note

• The Angle function works only with discs on which multiple angles have been recorded.



Zoom Function

This function allows you to enlarge a particular area of the displayed image.

Zoom (Screen Enlarge) Function







Press Cursor ▲, ▼,

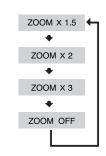
◀, ▶ buttons to
move to the area
you want to enlarge.



DVD VCD

3 Press ENTER button.

• Each time the button is pressed, the zoom level changes as follows:



Aspect Ratio



Press **EZ VIEW** button.

- Each time the button is pressed, the zoom function will switch between On and Off.
- When a movie is played in Widescreen format, black bars at the top and bottom of the TV screen can be removed by pressing the EZ VIEW button.



Note

- This function will not work if the DVD is recorded with multi-camera angle format.
- Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.

31

7 8 9 RSCAN

Selecting Audio/Subtitle Language

DVD VCD CD

Moving Directly to a Scene/Song



Audio Language Selection Function



Press **INFO** button twice.

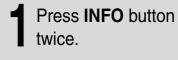
DVD KO 1/3 DISCIPLA OFF/ 02 C) OFF

Press Cursor A, V buttons or numeric buttons to select the desired audio language.

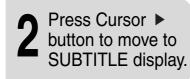
• Depending on the number of languages on a DVD disc, a different audio language (KOREAN, ENGLISH, JAPANESE, etc.) is selected each time the button is pressed.



Subtitle Language Selection Function





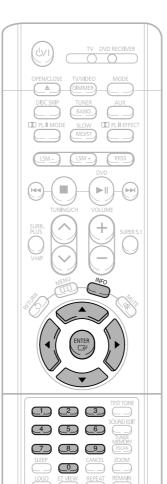




Press Cursor ▼ button or numeric buttons to select the desired subtitle.



· Depending on the disc, the Subtitle and Audio Language functions may not work.



Moving to a Title/Track

Press Cursor ▲ . ▼ buttons or numeric buttons to select the desired title/track and then press **ENTER** button.



Moving to a Chapter

Press Cursor **◄**. ▶ buttons to move to Chapter display.



Moving to a Chapter

DVD 🔐 01/05 💸 001/040 🕜 0:00:37 🐸 1/1

Press INFO button.

Press Cursor ▲. ▼ buttons or numeric buttons to select the desired chapter and then press **ENTER** button.



Moving to a Specific Time

Press Cursor **◄**, ▶ buttons to move to time display.



Moving to a Specific Time

Press the numeric buttons to select the desired time and then press **ENTER** button.





Press the **numeric** buttons.

- The selected file will be played.
- An MP3 or JPEG disc cannot be moved from the disc information screen.
- When playing an MP3 or JPG disc, you cannot use ▲,▼ to move a folder. To move a folder, press ■ (Stop) and then press \blacktriangle , \blacktriangledown .



Note

- You can press I◄◄ ▶►I on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or



Using Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

Press Cursor ▲ ,▼

buttons to move to

'DISC MENU' and then

press **ENTER** button.

• When you select the disc menu that is not

supported by the disc, the "This menu is not

supported" message appears on the screen.



- Press **MENU** button.
- When playing a VCD (version 2.), this toggles between PBC ON and OFF.



Press Cursor ▲,▼,

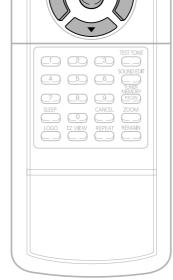
◀,▶ buttons to
select the desired
item.



Press ENTER button.







Note

PBC (Playback Control) Function

When playing a VCD (version 2.0), you can select and view various scenes according to the menu screen.

PBC ON: This VCD disc is version 2.0. The disc is played back according to the menu screen. Some functions may be disabled. When some functions are disabled, select "PBC OFF" to enable them.

PBC OFF: This VCD disc is version 1.1. The disc is played back in the same way as with a music CD.



Press **MENU** button.



Press Cursor ▲,▼ button to move to 'Title Menu'.

Using the Title Menu

Depending on the disc, this function may either not work at all or may work differently.

For DVDs containing multiple titles, you can view the title of each movie.



Press ENTER button.

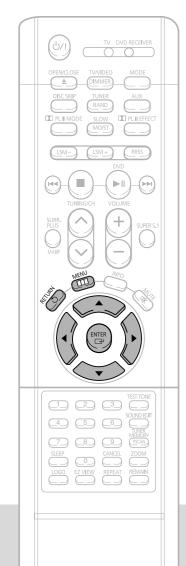
• The title menu appears.



Press **MENU** button to exit the setup screen.

Setting the Language

OSD language is set to English by default.



Press **MENU** button.

Press Cursor ▼
button to move to
'Setup' and then
press ENTER button.



Press ENTER button.



Press Cursor ▲,▼
button to select the
desired item and then
press ENTER button.



Press Cursor ▲,▼
button to select the
desired language and then
press ENTER button.

• Once the setup is complete, if the language was set to English, OSD will be displayed in English.



Press **RETURN** button to return to the previous level.

Press MENU button to exit the setup screen.



Selecting the OSD Language



Selecting the Audio Language (recorded on the disc)



Selecting the Subtitle Language (recorded on the disc)



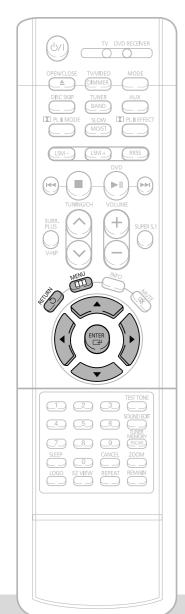
Language (recorded on the disc)

* If the language you selected is

Selecting the Disc Menu

* If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

Setting TV Screen type



Press **MENU** button.



Press Cursor ▼
button to move to
'Setup' and then
press ENTER button.



Press Cursor ▼
button to move to 'TV
DISPLAY' and then
press ENTER button.



Press Cursor ▲,▼
button to select the
desired item and then
press ENTER button.

• Once the setup is complete, you will be taken to the previous screen.



Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of wide screen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

* For a standard TV, select either "4:3LB" or "4:3PS" option according to personal preference. Select "16:9" if you have a widescreen TV.

WIDE

- : Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.
- •You can enjoy the widescreen aspect.



4:3LB (4:3 Letterbox)

- : Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- •Black bars will appear at the top and bottom of the screen



4:3PS (4:3 Pan&Scan)

- : Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- •You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).



Note

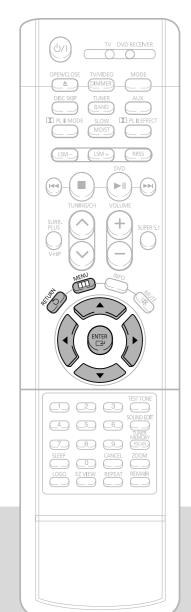
- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.

Setting Parental Controls (Rating Level)

Use this to restrict playback of adult or violent DVDs you do not want children to view.





Press Cursor ▼
button to move to
'Setup' and then
press ENTER button.



Press Cursor ▼
button to move to
'PARENTAL' and then
press ENTER button.



Press Cursor ▲,▼
buttons to select the
desired rating level and
then press ENTER button.

- If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
- The higher the level, the closer the content is to violent or adult material.



5 Enter the password and then press ENTER button.

- The password is set to "7890" by default.
- Once the setup is complete, you will be taken to the previous screen.



Note •

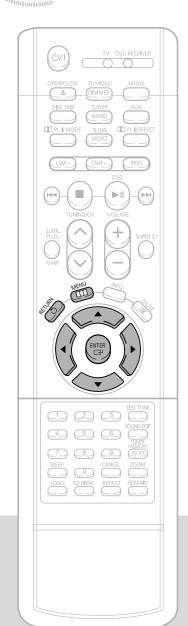
This function works only if a DVD disc contains rating level information.

Press **RETURN** button to return to the previous level.

Press MENU button to exit the setup screen.

Setting the Password

You can set the password for the Parental (rating level) setting.









Press Cursor ▼ button to move to 'PASSWORD' and then press **ENTER** button.



Press **ENTER** button.



Enter the password and then press **ENTER** button.

- Enter the old password, a new password, and confirm new password.
- The setting is complete.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

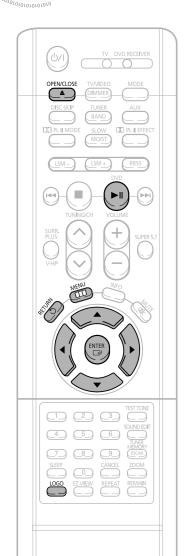
Setting the Wallpaper RED WOOD







While watching a DVD, VCD, or JPEG CD, you can set an image you like as background wallpaper.



During playback, press PLAY/PAUSE button when the image you like comes up.



Press LOGO button.

• "LOGO COPYING" will be displayed on the TV screen followed by "LOGO COPIED".



Press **MENU** button.



Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.



Press Cursor ▼ button to move to 'LOGO' and then press **ENTER** button.



Press Cursor button to move to 'USER' and then press **ENTER** button.



Press **MENU** button to exit the setup screen.

Press OPEN/CLOSE button to open and then close the disc tray.

Press RETURN button to return to the previous level.

Press **MENU** button to exit the setup screen.

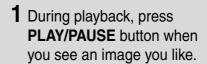


Select this to set the Samsung Logo image as your wallpaper.



Select this to set the desired image as your wallpaper.

To Change the Wallpaper







- 2 Press LOGO button.
 - "LOGO COPYING" will be displayed on the TV screen followed by "LOGO COPIED".



- 3 Press OPEN/CLOSE button to open and then close the disc tray.
 - The wallpaper is changed.

and a control of the control of the

Setting the Speaker Mode

Press **MENU** button.



In the Speaker Setup, press the ENTER button again.



Press Cursor ▼
button to move to
'Audio' and then
press ENTER button.



Press Cursor ▲, ▼,

◀,▶ buttons to move
to the desired
speaker and then
press ENTER button.

 For C, LS, and RS, each time the button is pressed, the mode switches alternately as follows: SMALL → NONE.

For L and R, the mode is set to SMALL.



SMALL: Select this when using the speakers.

NONE: Select this when no speakers are installed.

Note

 With DXIPL (Dolby Pro Logic II), the delay time may be different for each mode.

(1) (2) (3) TEST TONE

- With AC-3 and DTS, the delay time is set between 00 and 15mSEC.
- Depending on PRO LOGIC and STEREO, the speaker mode may vary.



Setting the Test Tone

Press **MENU** button.

Press Cursor ▼ button to move to 'Audio' and then press ENTER button.





Supplement of the supplement o

Press RETURN button to return to the previous level.

Press **MENU** button to exit the setup screen.

Press Cursor ▼ button to move to 'TEST TONE' and then press ENTER button.

 The test tone will be sent to L → C → R → RS → LS → SW in that order.
 If the button is pressed again at this time, the test tone will stop.





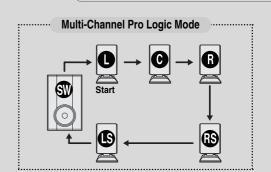
When manually testing using the **TEST TONE** button

L: Front Speaker (L) C: Center Speaker SW: Subwoofer R: Front Speaker (R) LS: Rear Speaker (L) RS: Rear Speaker (R)

Press **TEST TONE** button.

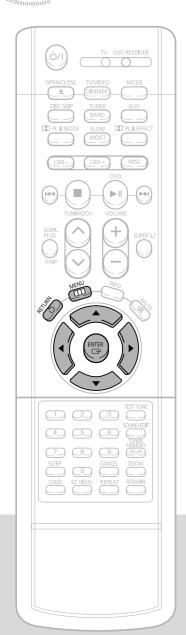
- Test tone will be produced as follows: When playing a DVD or CD, this will work only in Stop mode.
- Use this function to check that each speaker is correctly connected and that there is no problem.

To end the test tone, press **TEST TONE** button.



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Setting the Delay Time



Press **MENU** button.

Press Cursor ▼ button to move to 'Audio' and then press ENTER button.



Press Cursor ▼ button to move to 'DELAY TIME' and then press **ENTER** button.



Press Cursor ▲, ▼, ◆ , ▶ buttons to move to the desired speaker and then press **ENTER** button.



Press Cursor . . . to set the Delay time

 You can set the delay time for C between 00 and 05mSEC and for LS and RS between 00 and 15mSEC.



Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Center and Surround Speakers.

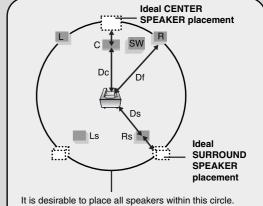
Setting CENTER SPEAKER

If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between D	f and Dc Delay T	ime
20 Inches	1.3 r	ns
40 Inches	2.6 r	ns
5 feet	3.9 r	ns
6 feet 6.6 inche	s 5.3 r	ns

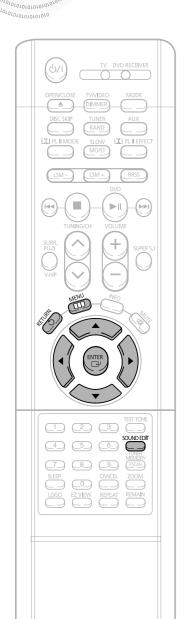
• Setting REAR (SURROUND) SPEAKERS If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

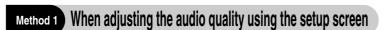
Distance between Ds and Dc	Delay Time
6 feet 6.6 inches	5.3 ms
13 feet 3.3 inches	10.6 ms
20 feet	15.9 ms



- Df: The distance from FRONT SPEAKER
- Dc: The distance from CENTER SPEAKER
- Ds: The distance from SURROUND SPEAKER

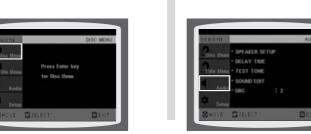
Setting the Audio Quality Setting the balance and level for each speaker.





Press **MENU** button.

Press Cursor ▼
button to move to
'Audio' and then press
ENTER button.



Press Cursor ▼ button to move to 'SOUND EDIT' and then press ENTER button.



Press Cursor ▲ , ▼ , ◀ ,
▶ buttons to select and
adjust the desired item and
then press ENTER button.



Method 2 When manually adjusting with the SOUND EDIT button

Adjusting Front Speaker Balance

Press SOUND EDIT button and then press Cursor



Adjusting Rear Speaker Balance

Press SOUND
EDIT button and then press Cursor



Adjusting Center Speaker Level

Press SOUND
EDIT button and then press Cursor

, ...



Adjusting Rear Speaker Level

Press SOUND
EDIT button and then press Cursor



Adjusting Subwoofer Speaker Level

Press SOUND
EDIT button and then press Cursor



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Note

Adjusting Front/Rear Speaker Balance

- You can select between 00 and -06 and OFF.
- The volume decreases as you move closer to -6.

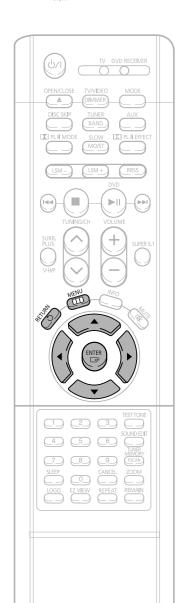
Adjusting Center/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to -6dB.
- The sound gets louder as you move closer to +6dB and smaller as you get closer to -6dB.



Setting the DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



Press MENU button.







Press Cursor ▼
button to move to
'DRC' and then press
ENTER button.



 The longer the Cursor ▲ button is held down, the greater the effect, and the longer Cursor ▼ button is held down, the smaller the effect.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Dolby Pro Logic II Mode

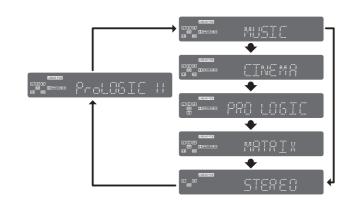
You can select the desired Dolby Pro Logic II audio mode.

Dolby Pro Logic II Effect

This function works only in Dolby Pro Logic MUSIC mode.

Press DC PL II MODE button.

• Each time the button is pressed, the mode changes as follows.

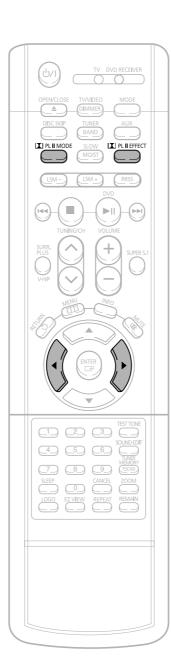


Note • When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to 5.1 channel surround sound.

PRO LOGIC II

- MUSIC: When listening to music, you can experience sound effects as if you are listening to the actual performance.
- CINEMA: Adds realism to the movie soundtrack.
- PRO LOGIC: You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- MATRIX: You will hear 5.1 channel surround sound.

STEREO: Select this to listen to sounds from the front left and right speakers and the subwoofer only.



Press DCI PL II MODE button to select 'MUSIC' mode.



Press DC PL II EFFECT button and then press Cursor ◀, ▶ buttons to select the mode.

• You can select either 0 or 1.



Press DI PL II EFFECT button and then press Cursor ◀, ▶ buttons to select the mode.

You can select between 0 and 7.



Press DC PL II EFFECT button and then press Cursor ◀,▶ buttons to select the mode.

• You can select between 0 and 6.



- Note When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and INPL II (Dolby Pro Logic II) button does not work.
- PANORAMA: This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.
- CENTER WIDTH: Sound is output to the center speaker only. The front left and right speakers produce
- DIMENSION: Incrementally adjusts the sound field (DSP) from the front or rear.

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Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. @1996 Digital Theater Systems, Inc. All rights reserved.



Setting the RRSS(Rear Reflecting Surround System)

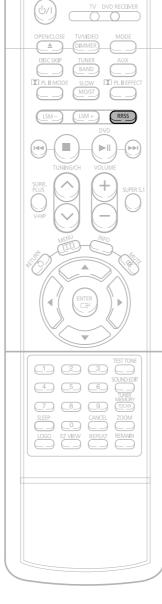
- By setting up the RRSS function just once, the speaker distance, channel level, and rear sound reflection effect are automatically set and create an optimal listening environment.
- This function works only in DVD/CD mode.
- Connect the RRSS Microphone to the RRSS input jack.
- Place the RRSS Microphone at the listening position.
- Press the RRSS button.
- A speaker tone will be heard once from each speaker in the order of L → C → R → RS → LS → SW, and then the newly set error tone will be heard again from L → R.
- An optimal listening environment will be set up automatically.
- It takes about 3 to 4 minutes to complete the RRSS setup.



Tone Output

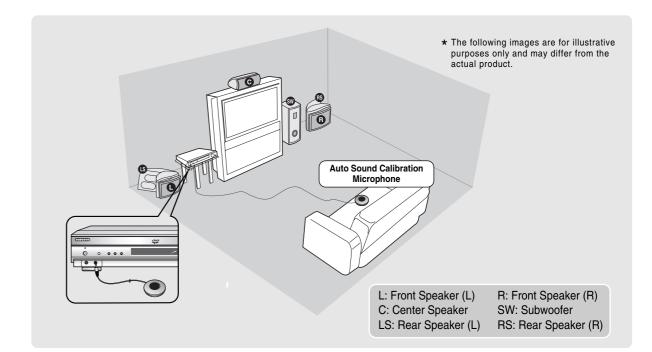
A piano sound will be heard and the setup will be completed.

When "REMOVE MIC" appears on the display, disconnect the RRSS Microphone.



Note

- The RRSS button works as the RRSS setup function shown above if the RRSS Microphone is connected, and works as the rear sound reflection effect function if the microphone is removed.
- If you are installing the system for the first time or if you have initialized the system, "NO MEASURED DATA" will appear on the display when you press the RRSS button without connecting the RRSS Microphone.
- During the RRSS setup, the output volume of the tone is fixed and you cannot use the volume control buttons to adjust the output level.
- If you remove the RRSS Microphone during the RRSS setup, the setup will be cancelled.
- Place the front and left speakers (L/R) toward the side walls so that the rear speaker sound is reflected against the walls.



To select the RRSS that you have set

Briefly press the **RRSS** button.

(If you have set the RRSS for the first time according to Steps 1 to 3 on the previous page)

- Your selection will toggle between "REAR REFLECTING ON" and "REAR REFLECTING OFF" on the display.
- Select "REAR REFLELTING ON" to listen using the RRSS setting and select "REAR REFLECTING OFF" to listen to the disc currently being played in its original setting.

To check the RRSS that you have set

- 1. Press and hold the RRSS button twice.
 - "CHECK" appears on the display.
- 2. Next, briefly press the RRSS button.
 - The speaker distance and level value for each channel will be displayed.

To cancel the RRSS setup

Press the **RRSS** button.

 The tone output stops, "CANCEL" appears on the display, followed by "REMOVE MIC", and then the setup will be cancelled.

To enable or disable the sound logo

When you turn on the power, a sound logo will be heard, indicating that the disc reading is completed and the player is in its optimal condition to play the disc.

- 1. Press and hold the **RRSS** button.
 - "S.LOGO ON" or "S.LOGO OFF" appears on the display.
- **2.** Briefly press the **RRSS** button.
 - Each time you press the button, your selection toggles between "S.LOGO ON" and "S.LOGO OFF".
 - Select "S.LOGO ON" to enable the sound logo and select "S.LOGO OFF" to disable the sound logo.

Caution

 If the system is installed at a location where sound cannot be reflected (e.g., an open space without walls), the speaker distance, channel level, and rear sound reflection effect may be set incorrectly during the RRSS setup.



Rear Reflecting Surround System

You can enjoy realistic sound reproduction that approximates 5.1-channel surround sound using the front speakers.

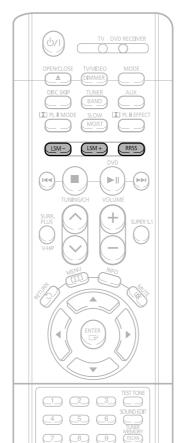


You can use the magic sound field to listen to 2-channel stereo sources in realistic

Press the **RRSS** button to select "REAR REFLECTING ON".

 The rear sound reflection function will be enabled and you can enjoy the 5.1-channel surround sound.

To cancel the rear sound reflection function, press the RRSS button again to select "REAR REFLECTING OFF".



Play a Dolby Surround or 2-Channel disc, or listen to the radio.

To cancel the magic sound field function, press and hold the Live Surround Mode button on the main unit for longer than 1 second.

What is RRSS?

(RRSS: Rear Reflecting Surround System)

- The sound from the front/rear speakers, which are located in the front, is first reflected against the side walls (or the ceiling) and then reflected against the rear wall before reaching the listener. It allows you to enjoy the realistic sound reproduction equal to that of a 5.1-channel speaker system using only 3 speakers.
- It not only increases space efficiency but eliminates the need for speaker cable arrangement because it does not require installation of rear speakers.

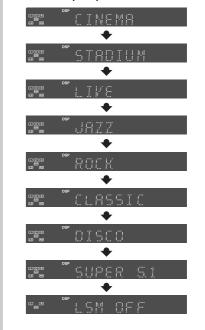




- Depending on the disc being played, the effect of each sound field may vary.
- You cannot select SUPER 5.1 mode when playing a DVD disc recorded in more than 2 channels.

Each time you press the Live **Surround Mode +** button, the mode display changes in the order shown below. Each time you press the Live Surround Mode - button, the mode display changes in the reverse order.

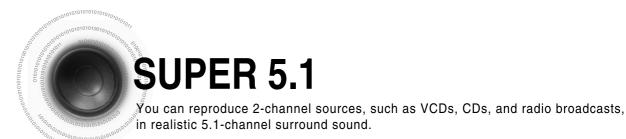
- CINEMA: A powerful sound field effect as in a movie theater.
- STADIUM: A sound field effect of being at a soccer or baseball game.
- LIVE: A sound field effect with a spatial feeling as in a live concert hall.
- JAZZ : Select this when listening to jazz.
- ROCK : Select this when listening to rock music.
- CLASSIC : Select this when listening to classical music.
- **DISCO**: A sound field with a powerful bass as in a disco club.
- SUPER 5.1 : Select this to listen to a 2 channel source in 5.1 channel.
- LSM OFF: If you press the Live Surround Mode button on the main unit, the mode display will appear on the display in the same order as pressing the Live Surround Mode + (LSM) button on the remote control.





SURR. PLUS / Virtual Headphone

The Surround II function works when the headphone is not connected, and the Magic Headphone function works when the headphone is connected.





Enable the Surround plus function if you have installed the system at a location where sound cannot be reflected. You can create a virtual rear sound image to enjoy realistic sound reproduction that approximates 5.1-channel surround sound. (When you enable this function, the center speaker does not produce sound and the disc will be reproduced in 4.1-channel.)

- Press the **SURR. PLUS** button to select the surround plus function.
- A realistic sound very similar to that of a
 5.1-channel sound system will be produced.

To cancel the surround plus function, press the SURR. PLUS button again.

• You can listen in regular stereo.

GE CHOO DEE



- This function works only with DVDs recorded in more than 2 channels.
- The surround plus function does not work with 2-channel sources such as music CDs or MP3 CDs.

Magic Headphone

You can enjoy a realistic sound very similar to that of a 5.1-channel sound system using regular stereo headphones.

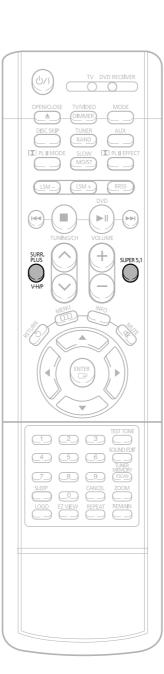
- Press the Virtual Headphone button to select "VIRTUAL ON".
- You can enjoy the feeling of being in the middle of a concert hall using headphones.

°° VIRTUAL ON

To cancel this function, press the Virtual Headphone button to select "VIRTUAL OFF".

• You can listen in a regular 2-channel stereo.





Press the SUPER 5.1 button to select "SUPER 5.1".

 A 2-channel source will be reproduced in 5.1 channel.

UCCO

To cancel this function, press the SUPER 5.1 button to select "SUPER OFF".

Note

 If you insert a DVD recorded in more than 2 channels and press the SUPER 5.1 button, "THIS FUNCTION APPLIES ONLY 2CH SOURCE" will appear on the display and the function will not work.



Listening to Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic or manual tuning operation.

Remote Control Unit

- Press TUNER/ BAND button.
- The selection toggles back and forth between "FM" and "AM" each time the TUNER(BAND) button is pressed.

Tune in to the desired station.

Automatic Tuning 1 When I◄◄ ►► is pressed, a preset broadcast station is

Press and hold 🛇 🗸 to automatically search for active broadcasting stations.

Briefly press 🛇 🔾 to increase or decrease the frequency incrementally.

Main Unit

Press the **Function** button to select the desired band (FM, AM).

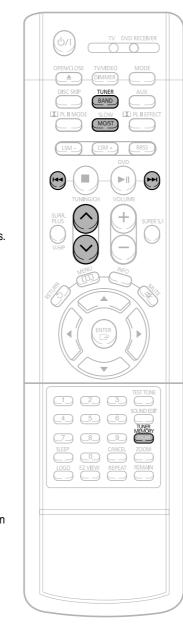
Select a broadcast station.

Automatic Tuning 1 Press the STOP (■)

PRESET and then press |◀◀ ▶▶| button to select the preset station.

Automatic Tuning 2 Press the STOP (■) button to select "MANUAL" and then press and hold I button to automatically search the band.

Manual Tuning Press STOP (■) to select MANUAL and then briefly press | to tune in to a lower or higher frequency.





Presetting Stations

You can store up to:

- ●15 FM stations
- FM Frequency Modulation
- ●15 AM stations
- AM(MW) Medium Wave

Example: Presetting FM 89.1 in the memory

Press the TUNER(BAND) button and select the FM band.

 Each time the button is pressed, the band switches between "FM" and "AM".

9 | 90.

Press 🛇 v to

• Refer to Step 2 on page 63 to automatically or manually tune in to a station.

MHz

- Press the **TUNER MEMORY** button.
- "PRGM" flashes in the display.



- Press I◀◀,▶▶I to select preset number
- You can select between 1 and 15.



- Press the **TUNER MEMORY** button.
- Press the TUNER MEMORY button before 'PRGM' disappears from the display.
- · 'PRGM' disappears from the display and the station is stored in memory.



To preset another station, repeat steps 2 to 5.

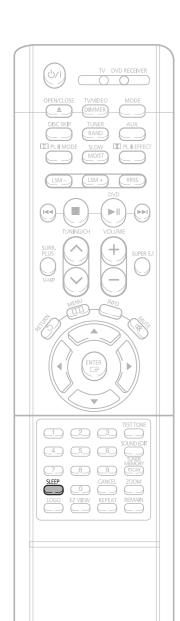
Press MO/ST button to listen in Mono/Stereo.

(This applies only when listening to an FM station.)

- Each time the button is pressed, the sound switches between "STEREO" and "MONO".
- In a poor reception area, select MONO for a clear, interference-free broadcast.

To tune in to a preset station, press ► on the remote control to select a channel.

Convenient Functions Convenient Functions



Sleep Timer Function

You can set the time that the DVD player will shut itself off.

Press **SLEEP** button.

•"SLEEP" will be displayed. Each time the button is pressed the preset time changes as follows: $10 \rightarrow 20 \rightarrow 30 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow 150 \rightarrow OFF$.



To confirm the sleep timer setting, press **SLEEP** button.

- •The remaining time before the DVD player will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier

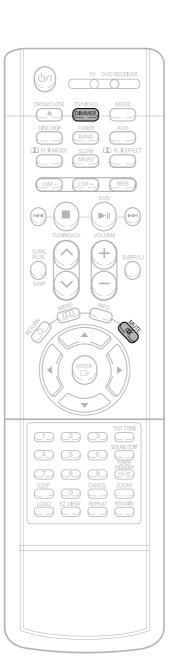
To cancel the sleep timer, press **SLEEP** button until OFF appears on the display.

Tray-Lock Function

This feature allows you to lock the tray in place so that children cannot pull on it or otherwise damage it.

With the power on, press and hold the OPEN/CLOSE button on the main unit for longer than 4 seconds.

- •"LOCK" appears on the display and the tray will be locked.
- •To disable this function, press and hold the **OPEN/CLOSE** button on the main unit for longer than 4 seconds.
- "UNLOCK" appears on the display and the Tray-Lock function will be cancelled.



Adjusting Display Brightness

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

Press **DIMMER** button.

 Each time the button is press, the brightness changes as follows: 'SLIGHTLY DARK → DARK → BRIGHT'.

Mute Function

This is useful when answering a doorbell or telephone call.

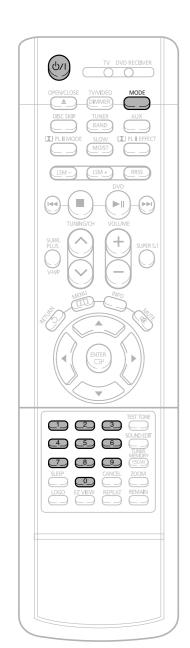
Press **MUTE** button.

- 'MUTE ON' appears in the display.
- To restore the sound, press the button again to select 'MUTE OFF'.





Operating the TV with the Remote Control



When operating the TV with the remote control

Press the **MODE** button on the remote control to make the TV indicator flash.

Press POWER button to turn on the TV.

3 Point the remote control toward the TV.

While holding down **POWER**, enter the code corresponding to your brand of TV.

- If the code matches the TV's code, the TV will be turned off.
- If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

Example: For a Samsung TV

While holding down **POWER**, use the number buttons to enter 00, 01, 02, 03, 04, and 05.

Pont the remote control toward the TV and press POWER. If the TV turns off or on, the setting is complete.

• You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

Note

- The remote control may not work on some brands of TVs. Also some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

TV Brand Code Number

No.	Brand	Code	No.	Brand	Code
1	SAMSUNG	00(Initial Value), 01, 02, 03, 04, 05, 73	30	BRANDT	41
2	ANAM	06~11,59	31	FERGUSON	41
3	DAEWOO	12~18, 20, 21	32	PIONEER	41, 48, 74
4	LG	05, 20, 21, 22, 53	33	TELEAVA	41
5	HITACHI	23, 40, 41, 49	34	FINLUX	05, 42, 47
6	JVC	24, 55	35	FISHER	31
7	SHARP	27, 33, 34, 35, 54	36	AKAI	31
8	SONY	27, 36	37	YOKO	05
9	TOSHIBA	27, 37, 42, 43, 44, 46	38	PHONOLA	05, 45, 47
10	SANYO	27, 30, 31, 32	39	RADIOLA	05,45
11	MITSUBISHI	05, 27, 28	40	SCHNEIDER	05
12	MATSUSHITA	09, 26	41	NEWSAN	58
13	TELEFUNKEN	41, 49, 51, 57	42	CONTINENTAL EDISON	49
14	RCA	29, 61	43	SALORA	48
15	PANASONIC	07, 09, 26, 48, 49, 50	44	SELECO	48
16	SABA	40, 41, 47, 48, 49	45	NOKIA	48
17	PHILIPS	05, 45, 47, 64, 65, 66, 67, 68, 69	46	REX	48
18	GRUNDIG	39, 42, 46, 70, 71, 72	47	MIVAR	46
19	ZENITH	38	48	IMPERIAL	46
20	MIVAL	52	49	CGE	46
21	NOBLEX	56	50	BANG & OLUFSEN	47
22	EMERSON	19	51	BRIONVEGA	47
23	MAGNAVOX	25	52	FORMENTI	47
24	LOEWE	05, 60	53	METZ	47
25	THOMSON	40, 41, 49, 62, 63	54	WEGA	47
26	NORDMENDE	40, 41, 49	55	RADIOMARELLI	47
27	LOEWE OPTA	36, 47, 05	56	SINGER	47
28	BLAUPUNKT	39	57	SINUDYNE	47
29	SIEMENS	39			

Before Calling for Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

Symptom	Check/Remedy
Disc tray does not open.	 Is the power cord plugged securely into the outlet? Turn off the power and then turn it back on. Did you enable the Tray-Lock function? To disable this function, press and hold the OPEN/CLOSE button on the main unit for longer than 4 seconds while the power is on.
Playback does not start.	 Check the region number of the DVD. DVD discs purchased from abroad may not be playable. CD-ROMs and DVD-ROMs cannot be played on this DVD player. Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	 Are you using a deformed disc or a disc with scratches on the surface? Wipe the disc clean.
Sound is not produced.	 No sound is heard during fast playback, slow playback, and step motion playback. Are the speakers connected properly? Is the speaker setup correctly customized? Is the disc severely damaged?
Sound can be heard only from a few speakers and not all six.	When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing □□PL (Dolby Pro Logic II) on the remote control to use all six speakers. Make sure that the DVD disc is 5.1-CH compatible. If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the front left and right speakers. Set C, SL, and SR to SMALL.
Picture does not appear, sound is not produced, or the disc tray opens 2 to 5 seconds later.	Was the DVD player suddenly moved from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player again after condensation disappears.)
Dolby Digital 5.1 CH Surround Sound is not produced.	 Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?

Symptom	Check/Remedy
 Disc is rotating but no picture is produced. Picture quality is poor and picture is shaking. 	 Is the TV power on? Are the video cables connected properly? Make sure that the disc is not a PAL- disc. Is the disc dirty or damaged? A poorly manufactured disc may not be playable.
The remote control does not work.	 Is the remote control being operated within its operation range of angle and distance? Are the batteries exhausted? Have you select the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?
Audio language and subtitles do not work.	Audio language and subtitles will not work for DVDs not containing them. And depending on the disc, they may work differently.
Menu screen does not appear even when the menu function is selected.	Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
Can't receive radio broadcast.	Is the antenna connected properly? If the antennas input signal is weak, install an external FM antenna in an area with good reception.
The main unit is not working. (Example: The power goes out or strange noise is heard.) The DVD player is not	 Turn off the power and hold the button on the main unit for longer than 5 seconds. Using the RESET function will erase all stored settings. Do not use this unless necessary.
working normally. The password for rating level has been forgotten.	While "NO DISC" message appears on the display of main unit, hold the main unit's button for longer than 5 seconds. "INITIAL" appears on the display and all settings will return to the default values. Press the POWER button. Using the RESET function will erase all stored settings. Do not use this unless necessary.

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.





Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.

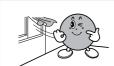
Do not stick paper or tape on the disc.

Disc Storage —

Do not keep in direct sunlight



Keep in a cool ventilated area



Keep in a clean Protection jacket. Store vertically.



Caution

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked discs or discs that are scratched.

Handling and Storing Discs



When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

• When cleaning, wipe gently from the inside to the outside of the disc.

Note

 Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.



G E N Weight 23 lb E Dimensions (W x H x D) 17 x 3.7 x 16 inches Operating Temperature Range 41°F ~ 95°F Operating Humidity Range 10% ~ 75% Usable Sensitivity 10dB					
A Operating Temperature Range 41°F ~ 95°F L Operating Humidity Range 10% ~ 75%					
A Operating Temperature Range 41°F ~ 95°F L Operating Humidity Range 10% ~ 75%					
L Operating Humidity Range 10% ~ 75%					
T Usable Sensitivity 10dB					
F U Usable Sensitivity 10dB S/N Ratio 60dB Distortion 0.5%	60dB				
R Distortion 0.5%	0.5%				
T Usable Sensitivity 54dB	54dB				
A U Usable Sensitivity 54dB S/N Ratio 40dB Distortion 2%	40dB				
R Distortion 2%	2%				
VIDEO VIDEO Component Video Y:1.0Vp-p(75Ω load), Pr:0.70Vp-p(75Ω load)					
INPUT Component video Pb:0.70Vp-p(75Ω load)					
Composite Video 1.0Vp-p(75Ω load)					
V U Y:1.0Vp-p(75Ω load)					
T Component Video Pr:0.70Vp-p(75Ω load)					
Pb:0.70Vp-p(75Ω load)	Pb:0.70Vp-p(75Ω load)				
O T La MBEO Luminance Signal: 1.0Vp-p(75Ω load)	Luminance Signal: 1.0Vp-p(75Ω load)				
T S-VIDEO Color Signal: 0.286Vp-p(75Ω load)	Color Signal: 0.286Vp-p(75Ω load)				
A Front speaker output 80W(6Ω)/CH					
M Center speaker output $80W(6\Omega)$	` '				
P Rear speaker output 80W(6Ω)/CH	80W(6Ω)/CH				
Subwoofer speaker output 100W(3Ω)	, ,				
Frequency range 20Hz~20KHz	20Hz~20KHz				
I S/N Ratio 75dB	75dB				
E Channel separation 50dB					
R Input sensitivity (AUX)500mV	(AUX)500mV				
Speaker system 5.1ch speaker system	5.1ch speaker system				
Front/Rear/Center speaker Subwoofer s	speaker				
S Impedance 6Ω 3Ω					
P Frequency range 100Hz~20kHz 40Hz~200H	lz				
E Output sound pressure level 88dB/W/M 86dB/W/M					
A Rated input 80W 100W					
K Maximum input 160W 200W					
E	16 0 inches				
Center 11.8 x 7.5 x 4.6 inches	TOTO INOTICO				
Weights Front/Rear 3.3 lbs 18.7 lb					
Center 2.6 lb					

Notes on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
DIGITAL	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
DIGITAL	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with Tibular disc marking). With better sound quality, dynamic range, and directionality than traditional Dolby surround technology, you can enjoy dynamic, realistic sound.
DOLBY DIGITAL PRO LOGIC II	A 4 channel analog sound reproduced from a program source such as a videotape or LD with the or can enjoy a more realistic, robust sound unavailable from regular stereo sources.

SAMSUNG DVD PLAYER

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